Xin Lou

List of Publications by Year
in descending order

82 papers	1,844 citations	304743 22 h-index	302126 39 g-index
87 all docs	87 docs citations	87 times ranked	3262 citing authors

#	Article	IF	Citations
1	Enhancing Both Biodegradability and Efficacy of Semiconducting Polymer Nanoparticles for Photoacoustic Imaging and Photothermal Therapy. ACS Nano, 2018, 12, 1801-1810.	14.6	299
2	Targeted Brain Delivery of Rabies Virus Glycoprotein 29-Modified Deferoxamine-Loaded Nanoparticles Reverses Functional Deficits in Parkinsonian Mice. ACS Nano, 2018, 12, 4123-4139.	14.6	145
3	Postischemic Hyperperfusion on Arterial Spin Labeled Perfusion MRI is Linked to Hemorrhagic Transformation in Stroke. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 630-637.	4.3	98
4	Damaged lung gas exchange function of discharged COVID-19 patients detected by hyperpolarized ^{129} Xe MRI. Science Advances, 2021, 7, .	10.3	97
5	Mutations in apoptosis-inducing factor cause X-linked recessive auditory neuropathy spectrum disorder. Journal of Medical Genetics, 2015, 52, 523-531.	3.2	92
6	Intra- and interscanner reliability and reproducibility of 3D whole-brain pseudo-continuous arterial spin-labeling MR perfusion at 3T. Journal of Magnetic Resonance Imaging, 2014, 39, 402-409.	3.4	75
7	Accelerate gas diffusion-weighted MRI for lung morphometry with deep learning. European Radiology, 2022, 32, 702-713.	4.5	71
8	Astrocytic tumour grading: a comparative study of three-dimensional pseudocontinuous arterial spin labelling, dynamic susceptibility contrast-enhanced perfusion-weighted imaging, and diffusion-weighted imaging. European Radiology, 2015, 25, 3423-3430.	4.5	49
9	Arterial Spin Labeling Magnetic Resonance Imaging Estimation of Antegrade and Collateral Flow in Unilateral Middle Cerebral Artery Stenosis. Stroke, 2016, 47, 428-433.	2.0	48
10	Multi-delay ASL can identify leptomeningeal collateral perfusion in endovascular therapy of ischemic stroke. Oncotarget, 2017, 8, 2437-2443.	1.8	44
11	Use of 3D pseudo-continuous arterial spin labeling to characterize sex and age differences in cerebral blood flow. Neuroradiology, 2016, 58, 943-948.	2.2	42
12	Alterations of White Matter Connectivity in Preschool Children with Autism Spectrum Disorder. Radiology, 2018, 288, 209-217.	7.3	35
13	Early experience in high-resolution MRI for large vessel occlusions. Journal of NeuroInterventional Surgery, 2015, 7, 509-516.	3.3	33
14	Collateral perfusion using arterial spin labeling in symptomatic versus asymptomatic middle cerebral artery stenosis. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 108-117.	4.3	31
15	Cortical thinning in type 2 diabetes mellitus and recovering effects of insulin therapy. Journal of Clinical Neuroscience, 2015, 22, 275-279.	1.5	30
16	Perfusion and plaque evaluation to predict recurrent stroke in symptomatic middle cerebral artery stenosis. Stroke and Vascular Neurology, 2019, 4, 129-134.	3.3	29
17	Differential diagnosis of mitochondrial encephalopathy with lactic acidosis and stroke-like episodes (MELAS) and ischemic stroke using 3D pseudocontinuous arterial spin labeling. Journal of Magnetic Resonance Imaging, 2017, 45, 199-206.	3.4	28
18	Structural and Functional Thalamic Changes in Parkinson's Disease With Mild Cognitive Impairment. Journal of Magnetic Resonance Imaging, 2020, 52, 1207-1215.	3.4	27

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19	Reduced perfusion in normal-appearing white matter in mild to moderate hypertension as revealed by 3D pseudocontinuous arterial spin labeling. Journal of Magnetic Resonance Imaging, 2016, 43, 635-643.	3.4	26
20	Differentiation between radiation-induced brain injury and glioma recurrence using 3D pCASL and dynamic susceptibility contrast-enhanced perfusion-weighted imaging. Radiotherapy and Oncology, 2018, 129, 68-74.	0.6	25
21	Timely Visualization of the Collaterals Formed during Acute Ischemic Stroke with Fe_3O_4 Nanoparticle-based MR Imaging Probe. Small, 2018, 14, e1800573.	10.0	24
22	Chronic lymphocytic inflammation with pontine perivascular enhancement responsive to steroids (CLIPPERS): A lymphocytic reactive response of the central nervous system? A case report. Journal of Neuroimmunology, 2017, 305, 68-71.	2.3	23
23	Fast and accurate reconstruction of human lung gas MRI with deep learning. Magnetic Resonance in Medicine, 2019, 82, 2273-2285.	3.0	23
24	Quantitative radiomic biomarkers for discrimination between neuromyelitis optica spectrum disorder and multiple sclerosis. Journal of Magnetic Resonance Imaging, 2019, 49, 1113-1121.	3.4	21
25	Radiomics Analysis of DTI Data to Assess Vision Outcome After Intravenous Methylprednisolone Therapy in Neuromyelitis Optic Neuritis. Journal of Magnetic Resonance Imaging, 2019, 49, 1365-1373.	3.4	18
26	Alterations of regional homogeneity in Parkinson's disease with mild cognitive impairment: a preliminary resting-state fMRI study. Neuroradiology, 2020, 62, 327-334.	2.2	18
27	On the Validation of a Multiple-Network Poroelastic Model Using Arterial Spin Labeling MRI Data. Frontiers in Computational Neuroscience, 2019, 13, 60.	2.1	17
28	Association of Perforator Stroke After Basilar Artery Stenting With Negative Remodeling. Stroke, 2019, 50, 745-749.	2.0	17
29	Correlation of visual area with tremor improvement after MRgFUS thalamotomy in Parkinson's disease. Journal of Neurosurgery, 2022, 136, 681-688.	1.6	17
30	MR findings of Rosai–Dorfman disease in sellar and suprasellar region. European Journal of Radiology, 2012, 81, 1231-1237.	2.6	16
31	Preliminary Study on Cervical Spinal Cord in Patients with Amyotrophic Lateral Sclerosis Using MR Diffusion Tensor Imaging. Academic Radiology, 2014, 21, 590-596.	2.5	15
32	Coloring ultrasensitive MRI with tunable metal–organic frameworks. Chemical Science, 2021, 12, 4300-4308.	7.4	15
33	Treatment Strategies for Intracranial Mirror Aneurysms. World Neurosurgery, 2017, 100, 450-458.	1.3	13
34	Convergent structural network and gene signatures for MRgFUS thalamotomy in patients with Parkinson's disease. NeuroImage, 2021, 243, 118550.	4.2	13
35	The role of magnetic resonance diffusion-weighted imaging and three-dimensional arterial spin labelling perfusion imaging in the differentiation of parasellar meningioma and cavernous haemangioma. Journal of International Medical Research, 2014, 42, 915-925.	1.0	12
36	A longitudinal study of cerebral blood flow under hypoxia at high altitude using 3D pseudo-continuous arterial spin labeling. Scientific Reports, 2017, 7, 43246.	3.3	12

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37	Quantitative evaluation of lung injury caused by $PM_{2.5}$ using hyperpolarized gas magnetic resonance. Magnetic Resonance in Medicine, 2020, 84, 569-578.	3.0	12
38	Altered functional connectivity of the marginal division in Parkinson's disease with mild cognitive impairment: A pilot resting‐state fMRI study. Journal of Magnetic Resonance Imaging, 2019, 50, 183-192.	3.4	11
39	A Small Molecular Multifunctional Tool for pH Detection, Fluorescence Imaging, and Photodynamic Therapy. ACS Applied Bio Materials, 2020, 3, 1779-1786.	4.6	11
40	Different risk factors in identical features of intracranial atherosclerosis plaques in the posterior and anterior circulation in high-resolution MRI. Therapeutic Advances in Neurological Disorders, 2020, 13, 175628642090999.	3.5	11
41	Multiple predictors of in-stent restenosis after stent implantation in symptomatic intracranial atherosclerotic stenosis. Journal of Neurosurgery, 2022, 136, 1716-1725.	1.6	11
42	Clinical and radiological characteristics of 17 Chinese patients with pathology confirmed tumefactive demyelinating diseases: Follow-up study. Journal of the Neurological Sciences, 2015, 348, 153-159.	0.6	9
43	Comparison of field-of-view optimized and constrained undistorted single-shot diffusion-weighted imaging and conventional diffusion-weighted imaging of optic nerve and chiasma at 3T. Neuroradiology, 2018, 60, 903-912.	2.2	9
44	Ivy Sign in Moyamoya Disease: A Comparative Study of the FLAIR Vascular Hyperintensity Sign Against Contrast-Enhanced MRI. American Journal of Neuroradiology, 2021, 42, 694-700.	2.4	9
45	Pretherapeutic functional connectivity of tractography-based targeting of the ventral intermediate nucleus for predicting tremor response in patients with Parkinson's disease after thalamotomy with MRI-guided focused ultrasound. Journal of Neurosurgery, 2022, 137, 1135-1144.	1.6	9
46	Permeability Imaging as a Biomarker of Leptomeningeal Collateral Flow in Patients with Intracranial Arterial Stenosis. Cell Biochemistry and Biophysics, 2015, 71, 1273-1279.	1.8	8
47	Clinicoradiologic characteristics of endolymphatic sac tumors. European Archives of Oto-Rhino-Laryngology, 2019, 276, 2705-2714.	1.6	8
48	Longitudinal assessment of cerebral blood flow changes following carotid artery stenting and endarterectomy. Radiologia Medica, 2019, 124, 636-642.	7.7	7
49	Intracranial collaterals and arterial wall features in severe symptomatic vertebrobasilar stenosis. Neurological Research, 2020, 42, 649-656.	1.3	7
50	Risk Factors of Recurrent Ischemic Events after Acute Noncardiogenic Ischemic Stroke. Current Pharmaceutical Design, 2020, 25, 4827-4834.	1.9	7
51	Relationship between Lung and Brain Injury in COVID-19 Patients: A Hyperpolarized 129Xe-MRI-based 8-Month Follow-Up. Biomedicines, 2022, 10, 781.	3.2	7
52	Differential diagnosis of infarct‐like intracranial ectopic germinomas and subacute lacunar infarct on susceptibility‐weighted imaging. Journal of Magnetic Resonance Imaging, 2012, 36, 92-98.	3.4	6
53	Assessment of Optic Nerve Impairment in Patients with Neuromyelitis Optica by MR Diffusion Tensor Imaging. PLoS ONE, 2015, 10, e0126574.	2.5	6
54	Conventional T2-Weighted Imaging to Detect High-Grade Stenosis and Occlusion of Internal Carotid Artery, Vertebral Artery, and Basilar Artery. Journal of Stroke and Cerebrovascular Diseases, 2015, 24, 1591-1596.	1.6	6

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55	MRI Probes: Timely Visualization of the Collaterals Formed during Acute Ischemic Stroke with Fe_3O_4 Nanoparticle‐based MR Imaging Probe (Small 23/2018). Small, 2018, 14, 1870108.	10.0	6
56	Association between basilar artery configuration and Vessel Wall features: a prospective high-resolution magnetic resonance imaging study. BMC Medical Imaging, 2019, 19, 99.	2.7	6
57	Long-Term Outcome of Enterprise Stenting for Symptomatic ICAS in a High-Volume Stroke Center. Frontiers in Neurology, 2021, 12, 672662.	2.4	6
58	Severity of Intracranial Large Artery Disease Correlates With Cerebral Small Vessel Disease. Journal of Magnetic Resonance Imaging, 2022, 56, 264-272.	3.4	6
59	Accelerating susceptibility-weighted imaging with deep learning by complex-valued convolutional neural network (ComplexNet): validation in clinical brain imaging. European Radiology, 2022, 32, 5679-5687.	4.5	6
60	Fiber-Specific Changes in White Matter Microstructure in Individuals With X-Linked Auditory Neuropathy. Ear and Hearing, 2020, 41, 1703-1714.	2.1	5
61	Abnormal dynamic ventilation function of COVID-19 survivors detected by pulmonary free-breathing proton MRI. European Radiology, 2022, 32, 5297-5307.	4.5	5
62	Lower fractional anisotropy at the anterior body of the normal-appearing corpus callosum in multiple sclerosis versus symptomatic carotid occlusion. Neuroradiology, 2009, 51, 557-561.	2.2	4
63	Intra-individual comparison of different gadolinium-based contrast agents in the quantitative evaluation of C6 glioma with dynamic contrast-enhanced magnetic resonance imaging. Science China Life Sciences, 2017, 60, 11-15.	4.9	4
64	Target Selection for Magnetic Resonance‐Guided Focused Ultrasound in the Treatment of Parkinson's Disease. Journal of Magnetic Resonance Imaging, 2022, 56, 35-44.	3.4	4
65	FLAIR vessel hyperintensities predict functional outcomes in patients with acute ischemic stroke treated with medical therapy. European Radiology, 2022, 32, 5436-5445.	4.5	4
66	High-resolution magnetic resonance vessel wall imaging–guided endovascular recanalization for nonacute intracranial artery occlusion. Journal of Neurosurgery, 2022, 137, 412-418.	1.6	4
67	Neuromyelitis optica and Wernicke encephalopathy share the similar imagings, any correlations?. Radiology of Infectious Diseases, 2016, 3, 79-83.	0.0	3
68	T2 relaxation time measurements in the brains of scalded rats. Science China Life Sciences, 2017, 60, 5-10.	4.9	3
69	The diagnostic value of high-frequency power-based diffusion-weighted imaging in prediction of neuroepithelial tumour grading. European Radiology, 2017, 27, 5056-5063.	4.5	3
70	Effect of normal aging on the structure of marginal division of neostriatum as measured by MR phase imaging and diffusion tensor imaging. Journal of Magnetic Resonance Imaging, 2017, 45, 1343-1351.	3.4	3
71	Impairments in brain perfusion, executive control network, topological characteristics, and neurocognition in adult patients with asymptomatic Moyamoya disease. BMC Neuroscience, 2021, 22, 35.	1.9	3
72	Ultrasensitive molecular building block for biothiol NMR detection at picomolar concentrations. IScience, 2021, 24, 103515.	4.1	3

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73	Diffusion-weighted magnetic resonance imaging in diagnosis of Creutzfeldt-Jakob disease. Chinese Medical Journal, 2006, 119, 1242-7.	2.3	3
74	Quantitative Measurement of Cerebral Blood Flow in Enhanced Psedo-continuous Arterial Spin Labeling Perfusion Imaging in Patients with Intracranial Atherosclerotic Stenosis. Zhongguo Yi Xue Ke Xue Yuan Xue Bao Acta Academiae Medicinae Sinicae, 2016, 38, 679-685.	0.2	3
75	Letter by Tian and Lou Regarding Article, â€œClinical Significance of Fluid-Attenuated Inversion Recovery Vascular Hyperintensities in Borderzone Infarctsâ€. Stroke, 2016, 47, e227.	2.0	2
76	Changes of cerebral cortical structure and cognitive dysfunction in â€œhealthy hemisphereâ€after stroke: a study about cortical complexity and sulcus patterns in bilateral ischemic adult moyamoya disease. BMC Neuroscience, 2021, 22, 66.	1.9	2
77	Arterial Spin Labelingâ€Based <scp>MRI</scp> Estimation of Penumbral Tissue in Acute Ischemic Stroke. Journal of Magnetic Resonance Imaging, 2023, 57, 1241-1247.	3.4	2
78	New-onset lesions on MRI-DWI and cerebral blood flow changes on 3D-pCASL after carotid artery stenting. Scientific Reports, 2021, 11, 8005.	3.3	1
79	Trigeminal Ganglioneuroma in the Middle-posterior Cranial Fossa: a Case Reportâ—[3]. Chinese Medical Sciences Journal, 2017, 32, 123-128.	0.4	0
80	Evolution of Unilateral Basal Ganglia Lesion Over 16 Months. JAMA Neurology, 2018, 75, 376.	9.0	0
81	Zero-shot Learning with Many Classes by High-rank Deep Embedding Networks. , 2019, , .		0
82	Quantifying the Cerebral Hemodynamic Changes in Hypertensive Patients Using 3D Pseudo-continuous Arterial Spin Labeling. Zhongguo Yi Xue Ke Xue Yuan Xue Bao Acta Academiae Medicinae Sinicae, 2017, 39, 477-484.	0.2	0